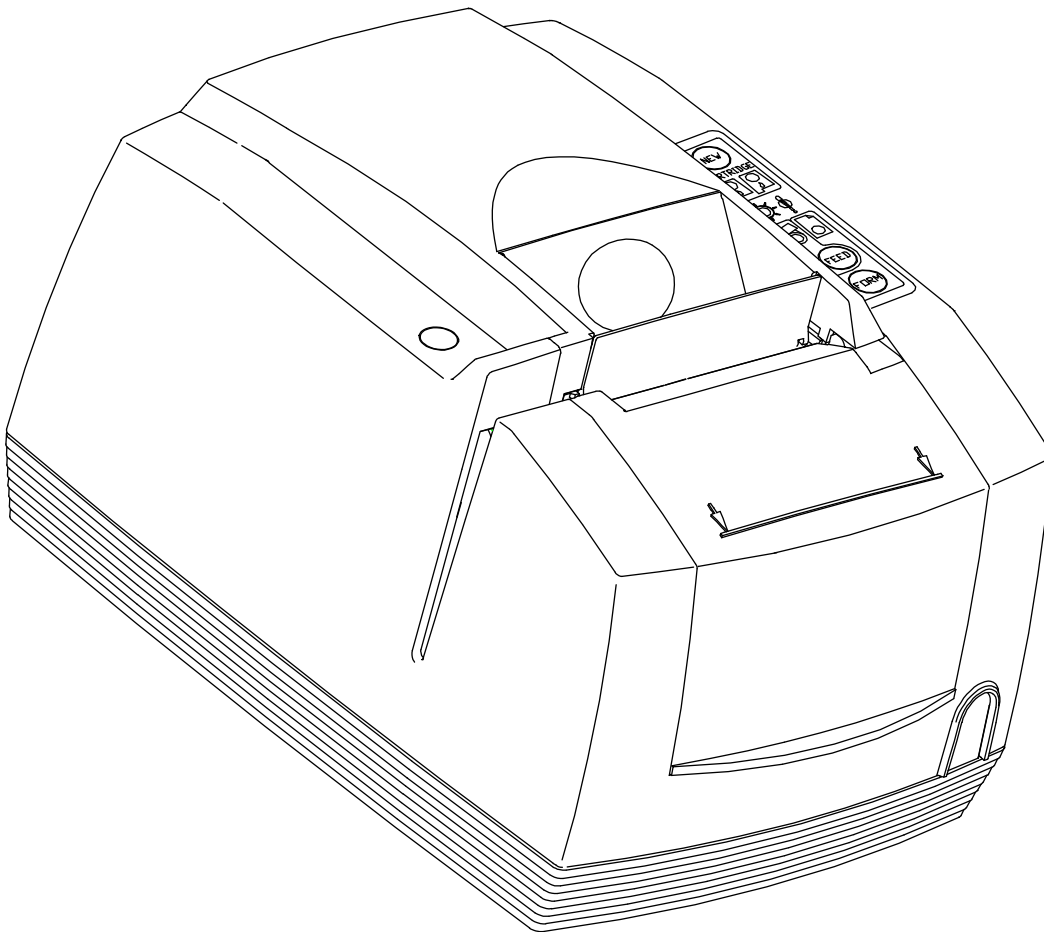


POSjet® 1500

Spare Parts Guide



Change History

| | |
|-------|---|
| Rev A | Initial Release. |
| Rev C | Pg 33 updated item #2 p/n |
| Rev D | Pg 26 added item #28 & 29 |
| Rev E | Pg 2 updated view & item #'s in chart to only show complete Interface Bd/Bracket Assemblies/Kits as purchased |
| Rev F | Pg 28 added item #24 (Driveframe Bearing) |
| Rev G | Pg 28 updated item #1 p/n (Screw); Pg 6 removed "buzzer" option |
| Rev H | Pg 22 updated item #11 p/n |
| Rev J | Added RoHS part numbers to the Spare Parts Lists |

Disclaimer

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Revision J, November 2007

Printed in USA.

Federal Communications Commission Radio Frequency Interference Statement

The POSjet® 1500 Printer complies with the limits for a Class B computing device in accordance with the specifications in Part 15 of FCC rules. These regulations are designed to minimize radio frequency interference during installation; however, there is no guarantee that radio or television interference will not occur during any particular installation. Interference can be determined by turning the equipment off and on while the radio or television is on. If the printer causes interference to radio or television reception, try to correct the interference by one or more of the following measures:

- Reorient the radio or television receiving antenna
- Relocate the printer with respect to the receiver
- Plug the printer and receiver into different circuits

If necessary, the user should consult their dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: How to Identify and Resolve Radio/TV Interference Problems. This booklet is available from the US Government Printing Office, Washington, DC 20402. Ask for stock number 004-000-00345-4.

Canadian Department of Communications Radio Interference Statement

The POSjet® 1500 Printer does not exceed Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Regulatory Compliance

North America:

| | |
|---------|--------------|
| EMI: | FCC Class B |
| Safety: | UL (US) |
| | CUL (Canada) |

Europe:

| | |
|-------------|--|
| CE Marking: | CLASS B: EN55022, EN50081-1 (optional) |
| Safety: | TUV |
| Other: | CB Certificate |

TransAct Technical Support

Monday through Friday, 8 A.M. to 8 P.M. Eastern Standard Time (excluding holidays). To obtain Technical Support, call: TransAct at (607) 257-8901, or (877) 7-ITHACA.

Service Information

TransAct Technologies Incorporated has a full service organization to meet your printer service and repair requirements. If your printer needs service, you can directly contact TransAct at (607) 257-8901 or (877) 7-ITHACA for a return authorization. International customers should contact their distributor for services. TransAct offers the following service programs to meet your needs.

- Extended Warranty
- Depot Repair
- Maintenance Contract
- Internet Support

Please have the following information at hand:

1. The Model Number and Serial Number.
2. A list of any other peripheral devices attached to the same port as the printer.
3. The application software, operating system, and network you are using.
4. A copy of your printer's Configuration Settings.
5. What happened, and what you were doing when the problem occurred.
6. How you tried to solve the problem.

Warranty Information

TransAct's POSjet® 1500 Printers come with a standard 24-month warranty that commences upon shipment from factory, and covers parts and labor. An optional warranty, covering both parts and labor for an additional 12 months, may be purchased separately. Repairs are warranted for 90 days from the date of repair or for the balance of the original warranty period, whichever is greater.

Return Materials Authorization and Return Policies

If the technical support person determines that the printer should be serviced at our facility, and you want to return the printer for repair, a Returned Materials Authorization (RMA) number must be issued before returning the printer. Prepare the printer being returned for repair as follows:

1. Remove and discard ink cartridges.
2. Pack the printer to be returned in the original packing material. Packing items may be purchased from TransAct's Ithaca Facility.
3. Return only the accessories that a Support Technician asks you to include.
4. Write the RMA number clearly on the outside of the box.

Shipping Printers

Never ship a printer with any ink cartridge(s) installed. Be sure to save the packing materials in the event that you need to send the printer in for servicing. TransAct Technologies is not responsible for damaged return items that are not packaged in original shipping material.

Where Can You Find More Information?

Our Internet Support and Sales Services

www.transact-tech.com

TransAct Technologies Inc. maintains an Internet web site with content devoted to product support. Within the Technical Support section you can find the most current versions of the Operator's Guide and Programmer's Guide.

1. Upon entering our web site, you will be brought to the "Welcome to TransAct" screen. This intro page has the Ithaca Brand listed at the top right. Click on the Ithaca logo.
2. Locate and click on the technical support button in the green area of the "Welcome to Ithaca" screen.
3. Use the "Product Info" pulldown box to select the appropriate information for the printer model that you are using.

Programmer's Guide

The *Programmer's Guide* is available by down loading it from our web site and is intended for system engineers or integrators. It does not contain additional information on the Microline emulation. It contains the information to integrate the POSjet® 1500 Printer with a point-of-sale terminal and to program the terminal to communicate with the printer in ITHACA, or EPSON modes.

The Programmer's Guide provides the following material:

- Start-up Information-Diagnostics and Fault Conditions
- Command Descriptions
- Character Fonts
- Printer Features
- Parallel and RS-232 Interface Information
- Communications and Buffers
- Command Code Reference Tables

Contacting TransAct

Contact TransAct for information about the POSjet® 1500 Printer and how it works with your system. For information on international distribution, visit our web site at www.transact-tech.com. Contact the TransAct's Sales and Technical Support Departments at the following address and telephone or fax numbers.

Technical Support

Receive technical support, order documentation, request additional information, or send in a printer for service.

Sales

Order supplies, receive more product information, or order product brochures.

TransAct Technologies Incorporated
Ithaca Facility
20 Bomax Drive
Ithaca, NY 14850 USA

TransAct Technologies
World Gaming Headquarters
& Western Regional Repair Center
6700 Paradise Road
Suite D
Las Vegas, NV 89119 USA

| | |
|-----------------------|---|
| Telephone | (877) 7-ITHACA or (607) 257-8901 |
| Main fax | (607) 257-8922 |
| Sales fax | (607) 257-3868 |
| Technical Support fax | (607) 257-3911 |
| Web site | www.transact-tech.com |

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POSjet® 1500 Features and Specifications

Standard Features

- Print Speed: 12 lps. at 10 char. per line
- Print Resolution: Max. 208 dpi. Horizontal, 96 dpi. Vertical
- Simple Snap-In, No-Mess Cartridges with Fast-Drying Ink
- Standard Warranty: Two Years (Extended Maintenance Plan Available)
- Insta-Load® Automatic Paper Loading
- Cash Drawer Drivers: Dual with Status (Single RJ12)
- Font Selections: Draft, Large Draft and Near Letter Quality
- Selectable Printing Features of Bold, Italics, Size Scaling and Rotated
- Emulations: Ithaca/IBM, Epson ESC/POS, TM-U325
- APA and Epson Bit Map Graphics
- Data Buffer: 8K (Adjustable)
- 208K Non-Volatile Flash for Multiple Character Sets, Bit Images and Electronic Journal
- Bar Codes: Code 39, Code 93, Interleaved 2 of 5, UPC-A and UPC-E, EAN8 and EAN13, Code 128
- 65 Language Character Sets Supported (EURO Character Included)
- Self Diagnostics
- Remote Statistics
- Paper Out and Ink Low Detection and Indicators
- Software Developer's Toolkit Available
- Top Drop-in Forms Insertion with Programmable Top of Form
- Independent Validation

Optional Features

- Auto-cutter (partial cut)
- Adjustable paper low
- Two-Color Printing
- Universal Power Supply and PowerPocket®

Additional Supported devices and tools

Printer Test and Configuration Programs

The POSjet® 1500 will be supported by various PC based tools. These tools include but are not limited to the following:

PJColor

PJColor is a program that will allow images and picture to be processed so they can work with the printer.

PJTerminal

PJTerminal is a test application that is used to verify communications to the printer.

PJBootload

PJBootload is a program that is used to replace or update the printer's firmware.

Ithaca Config

Ithaca Config is a program that is used to replace or update the printer's configuration settings.

Drivers and Utilities Available

POSjet® 1500 Drivers and Utilities can be downloaded from our web site, or call our Technical Support Department to request a Software Developer's Toolkit (CD-ROM).

POSjet Image Converter Utility

POSjet Image Converter (PJColor) is a tool to help develop graphic images to use as logos and coupons on the printer. It will read and convert images to a format suitable for printing on the POSjet® 1500 printer. It will allow you to preview the image and adjust the colors prior to printing. It will also allow the images to be stored in the printer's User Store.

PJTerminal Utility

PJTerminal is a tool that has been developed to allow you to interactively send commands to and get responses from the printer.

Optional Printer Configurations

Color Configuration

All POSjet® 1500 ink cartridge configurations are factory installed options.

Single Color

The single color configuration is provided with a single ink cartridge. It cannot be upgraded for two-color operation.

Two-Color Ready

The two color ready configuration is equipped with a single ink cartridge but can be easily upgraded to two-color operation simply by installing a second ink cartridge.

Two-Color

Two-color configuration requires that two cartridges be installed in the carriage. If one of the cartridges is black, it must be installed in the left carriage position.

Supported Emulations

IPCL Codes

ESC/POS Emulation

Ithaca® Microline Emulation

Printer Dimensions

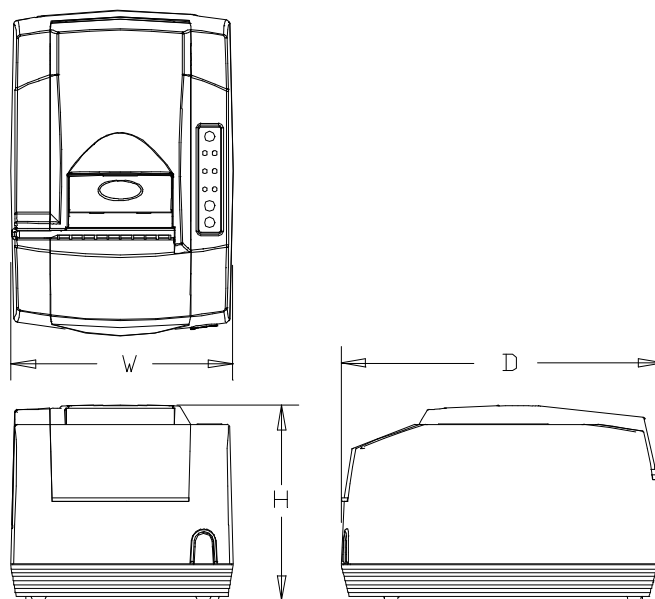


Figure 1 Printer Dimensions

| | Width | Depth | Height |
|----------------------|---|-------------------|-------------------|
| Without Knife | 6.75" (172 mm) | 9.75" (248 mm) | 5.92" (151 mm) |
| With Knife | 6.75" (172 mm) | 9.75" (248 mm) | 6.44" (164 mm) |
| Weight: | approx. 6 lbs. (2.7 kg) | | |
| Shipping: | approx. 8 lbs. (3.6 kg) | | |
| Interface | | | |
| Serial RS-232C | Bi-directional- Ready/Busy or XON/XOFF (9-pin D-shell or 25-pin D-shell) | | |
| Parallel IEEE1284 | Bi-directional- transmit/receive/ground (25-pin D-shell or 36-pin Centronics) | | |
| USB | Version 1.1 | | |

Environmental Conditions

The POSjet® 1500 is designed to be placed on point-of-sale terminals, counter tops, or any other flat, stable surface that can support the weight of the printer (about 6 lbs. or 2.7 kg). Be aware that the environmental conditions of the location where you place the printer will have an effect on the printer's performance and longevity. The printer will run its best when stored and operated in an environment that meets the following temperature and humidity conditions.

| | |
|-----------------------------------|--------------------------------|
| Typical Operating Range: | 10°C to 40°C / 50°F to 104°F |
| *Extended Operating Range: | 0°C to 45°C / 32°F to 113°F+ |
| Storage: | -10°C to 60°C / 14°F to 140°F |
| Shipping: | -40°C to 70°C / -40°F to 158°F |

* Exposure to high or low temperatures for periods of greater than 48 hours will lead to significantly reduced cartridge life. The Typical Operating Range provides full printer reliability. The Extended Operating Range may degrade the reliability of the printer and life of the cartridge.

Relative Humidity

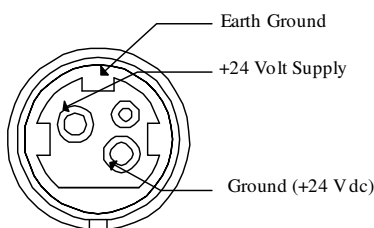
| | |
|------------|---|
| Operating: | 10% to 90% RH (<i>non-condensing</i>) |
| Storage: | 10% to 90% RH (<i>non-condensing</i>) |
| Shipping: | 5% to 90% RH (<i>non-condensing</i>) |

Reliability

| | |
|---|------------------------|
| Printer Life | 10,000,000 print lines |
| Mean time between failures: (without cartridge): | 28,000 hours |
| Average cartridge life (Average 16 dots/character): | 7.0 million characters |
| Autocutter option (partial cut): | 1 million cuts |
| Mean time to repair: | 15 minutes |
| Validation Cycles: | 1 million cycles |

Power Requirements

DC Powered Versions



| | |
|-----------------|------------------|
| Supply voltage: | 24 Vdc \pm 10% |
| Supply Current: | 1.0Amps |

AC Powered Versions

| | |
|-----------------|-----------------|
| Supply Voltage: | 100-240 Vac |
| Frequency: | 50/60 Hz |
| Supply Current: | .5 Amps maximum |

The POSjet® 1500 Printer is designed to be AC self-powered in domestic and international markets. The printer is equipped with a detachable universal input power supply that is designed to operate worldwide without modification. The power supply is a self-contained integrated switching power supply. The internal fuse (F1) located on the power supply will blow if the supply has an internal fault. The power supply has the following outputs, +5 VDC, +12 VDC, and +40 VDC, and an alarm signal input. The AC input connector and power switch are located on the back of the printer.

Printing Specifications

| | |
|--------------------------------------|---|
| Printing method: | Thermal ink jet |
| Cartridge arrangement: | 12 nozzle |
| Printing directions: | Bi-directional, logic seeking |
| Paper feed pitch: | Default - 0.125" (1/8" or 3.175 mm) |
| Validation Type: | Independent |
| # Validation lines: | Max. 9 lines (1.53") @ 6 lpi. 12 lines @ 8 lpi. |
| Receipt print zone (maximum): | 2.5" (63.5 mm) |
| Validation print zone: | Refer to "Validation Form Requirements" on page 11. |

Auto-cutter (Partial Cut Option)

A receipt auto-cutter is an optional feature with all POSjet® 1500 Printers.

| | |
|----------------------------------|-------------------|
| Cutter type | Guillotine |
| Cut to line of print | 1.635" (41.52 mm) |
| Cutter life | 1,000,000 cuts |
| Tear-off to line of print | 1.235" (31.4MM) |

Auto-cutter Position

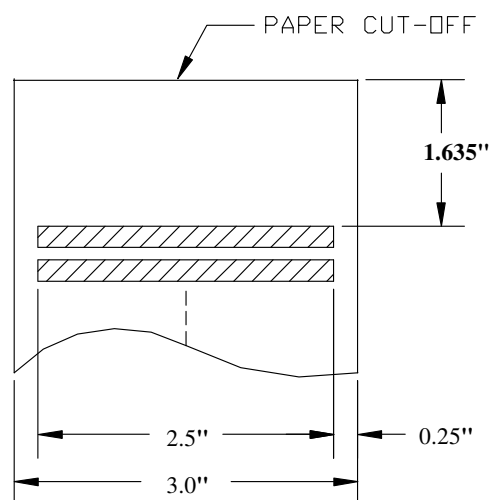


Figure 2 Receipt Printable Area

Sensors

| | |
|----------------------------|---|
| Paper low indicator | Optional Paper Low Sensor (based on paper roll diameter). |
| Receipt paper out | About 1.0" (25 mm) of paper remaining |
| Paper feed method | Friction feed |

Paper Out

A receipt paper out sensor is provided as a standard feature. It senses when there is approximately one inch of paper left on the paper roll.

Paper Low

A receipt paper-low sensor is provided as an optional feature. An operator-adjustable paper-low assembly allows the printer to sense when the paper roll is between 1.42" and 0.885" (36.1mm and 22.5mm) in diameter. It is adjustable to compensate for various paper core dimensions.

Media Specifications

Hewlett-Packard Inkjet Cartridges

| | |
|-------------------------------|--|
| Print Cartridge Specification | HP C6602A ¹ |
| Cartridge arrangement | 12 vertical nozzles |
| Vertical dot pitch | 0.264 mm (0.0104") or 96dpi. |
| Cartridge life | ~7.0 M Characters @ 16 dots per Character. |
| Cartridge Colors | Black, Red, Blue, Green |

Receipt Paper (one-ply receipt)

| | |
|-------------------------------------|---|
| Paper width: | 3.0" ± .02" (76mm ± .5mm) |
| Paper roll diameter: | 4.0" max (101.6mm max) |
| Paper thickness: | .003" - .004" (.07mm - .1mm) |
| Roll paper core outside Dia. | 0.82" - 0.85" (20.8 – 21.6 mm) Dia. |
| Roll paper core inside Dia. | 0.45" - 0.50" (11.4 – 12.7 mm) Dia. |
| Roll footage: | 330 feet - standard grade 300 feet - premium grade |

Validation Form Requirements

| | |
|------------------------------------|---|
| Form thickness-single part: | .003" to .0047" (.076 mm. to .119 mm.) |
| Form Size (Min): | 2.75" high x 2.75" long (69.8 mm. x 69.8 mm.) |
| Form Size (Max): | 8.5" high x 11" long (215.9 mm. x 279.4 mm.) |
| # Validation lines: | Max. 9 lines (1.53") @ 6 lines per inch |
| Check Basis weight: | 24 lbs. |

Electrical Specifications

External Powered AC

The POSjet® 1500 Printer is designed to be AC self-powered in domestic and international markets. The printer is equipped with a detachable universal input power supply that is designed to operate worldwide without modification.

External Powered DC

Optionally, the POSjet® 1500 Printer can be operated with an external 24-volt DC power supply.

¹ Print Cartridge Specifications are controlled by Hewlett-Packard and are proprietary. Information here is for reference only.

General Maintenance Procedures

Periodic Checks

Failure to perform periodic checks will eventually create printing inconsistencies and lead to more serious problems. Refer to the following information for a check list of cleanable items.

- Wipe all external plastic components using a cloth and non-corrosive cleaner
- Remove paper dust from all internal components using compressed air or vacuum
- Clean Carriage Shaft
- Clean contact areas with alcohol
- Remove all paper shavings from knife (if knife is an option)
- Clean rubber cartridge wipers with alcohol

Making Adjustments

The following information will answer some commonly asked questions about adjusting the POSjet® 1500. Due to the POSjet® 1500's design, the need to adjust components is limited to only two areas that may require periodic attention. Generally, the time duration between adjustments is dependant on the operational conditions for each unit. TransAct recommends that all adjustments are made by a service technician who has completed training on the POSjet® 1500.

Adjusting the Carriage Belt Tensioner

The POSjet® 1500 uses a drive belt that is adjustable by simply loosening the phillips head screw on the belt tensioner. An improperly adjusted belt tensioner may cause pre-mature belt wear and/or produce inconsistent printing. To adjust the belt tensioner:

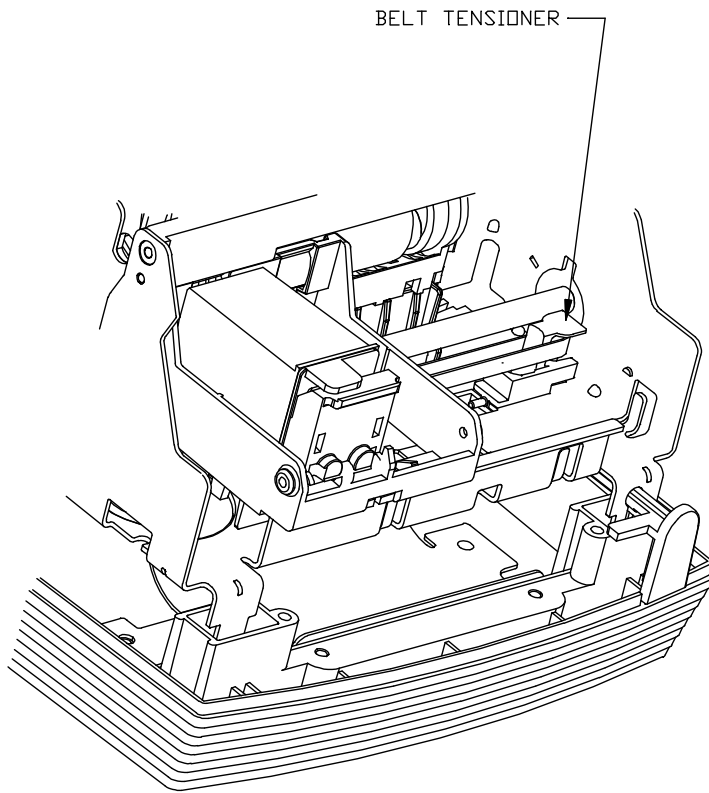


Figure 3 Adjusting the Belt Tensioner

1. Open both the front and rear top covers.
2. Locate the phillip's head screw on the tensioner and partially loosen until the spring tension returns the belt to correct position. Slide ink carriage from side to side to ensure that tensioner spring resets itself and immediately re-tighten screw while holding the Belt Tensioner with your finger to ensure alignment with mechanism frame.
3. Close both the front and rear top covers.

Assembly and Disassembly

Precautions for Disassembly

Before disassembling any part of the printer, be sure the power is turned off. Disconnect the AC power cord, the communication cable, and the cash drawer cables. Controller board and keypad PC board can be damaged by static electricity. Observe ESD precautions. Wear a grounded wrist strap, and use a static mat or other protected work surface. Do not place the printed circuit boards directly on the printer or floor.

Necessary Tools

Using the wrong tools may cause personal injury or damage the printer. Be sure to use the proper tools when maintaining or servicing the printer. The following list provides the necessary tools to properly maintain the POSjet® 1500 Printer.

- Screwdrivers
- #0 Phillips
- #1 Phillips
- #2 Phillips
- Small Flat Blade Screwdriver
- Large Flat Blade Screwdriver
- Nut Drivers
- Small Needle-Nose Pliers

Disconnecting the Power Cord

The printer must be grounded through the three-prong power connector. Do not use a ground defeating adapter.

1. Be sure the power switch is turned off.
2. Disconnect the external AC power source and the power cord from the power socket located on the back of the printer.

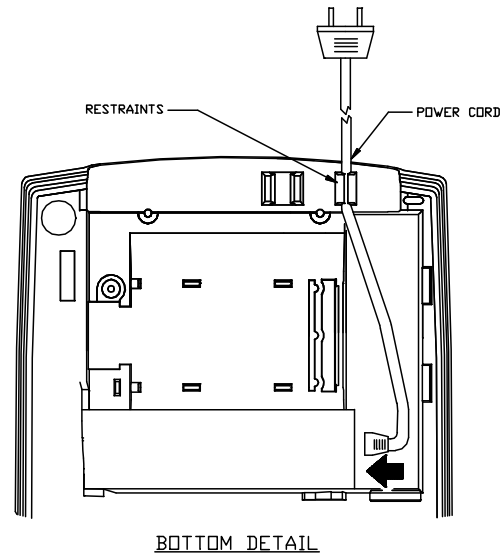


Figure 4 Disconnecting the Power Cord

Disconnecting the Communication Cable

Depending on the interface your system uses, disconnect either the serial or parallel communication cable from the connector on the back of the printer.

Serial Cable

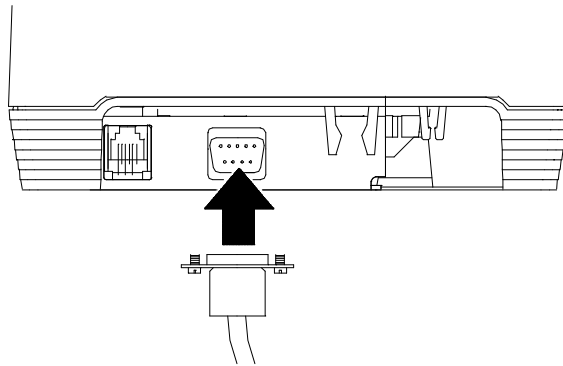


Figure 5 Disconnecting the Communication Cable-Serial

1. Turn the printer and the host system or PC off.
2. Loosen the two mounting screws on each side of the cable connector.
3. Disconnect the 9-pin serial interface cable from the connector on the back of the printer.

Parallel Cable

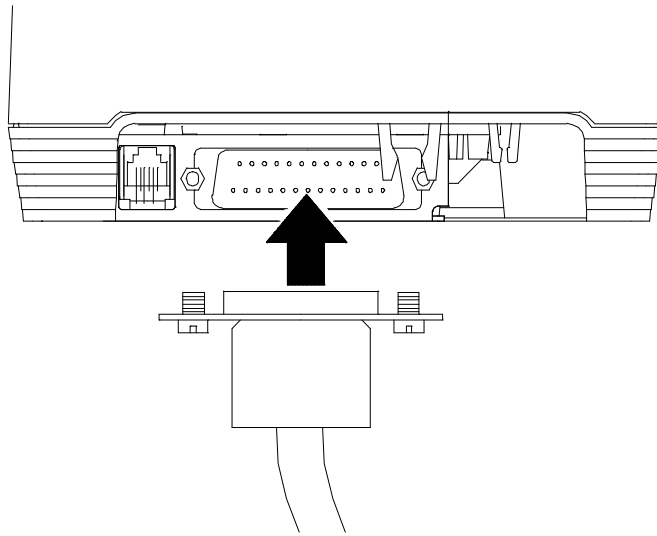


Figure 6 Disconnecting the Communication Cable-Parallel

1. Turn the printer and the host system or PC off.
2. Disconnect the 25-pin parallel cable from the connector on the back of the printer.

Disconnecting the Cash Drawer Cables

1. Turn the printer off.
2. Disconnect the cash drawer cable to the connectors on the back of the printer.

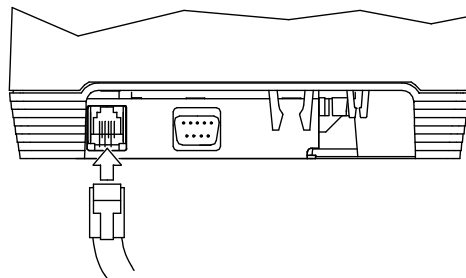


Figure 7 Disconnecting the Cash Drawer Cables

Removing the Printer Assembly (Midframe) (from Cabinet Base)

The Printer Assembly is held to the cabinet base by 4 phillips head screws located at the front and rear sections of the Printer Assembly.

1. Press the OPEN COVER Button to release the rear paper cover from the console.
2. Open the front cover.
3. Slowly remove the 4 phillips head screws that hold the mid-frame to the printer's base.
4. Disconnect the knife harness, and separate the printer assembly (mid-frame) from the cabinet base.
5. Unhook the knife harness from the PC Board.

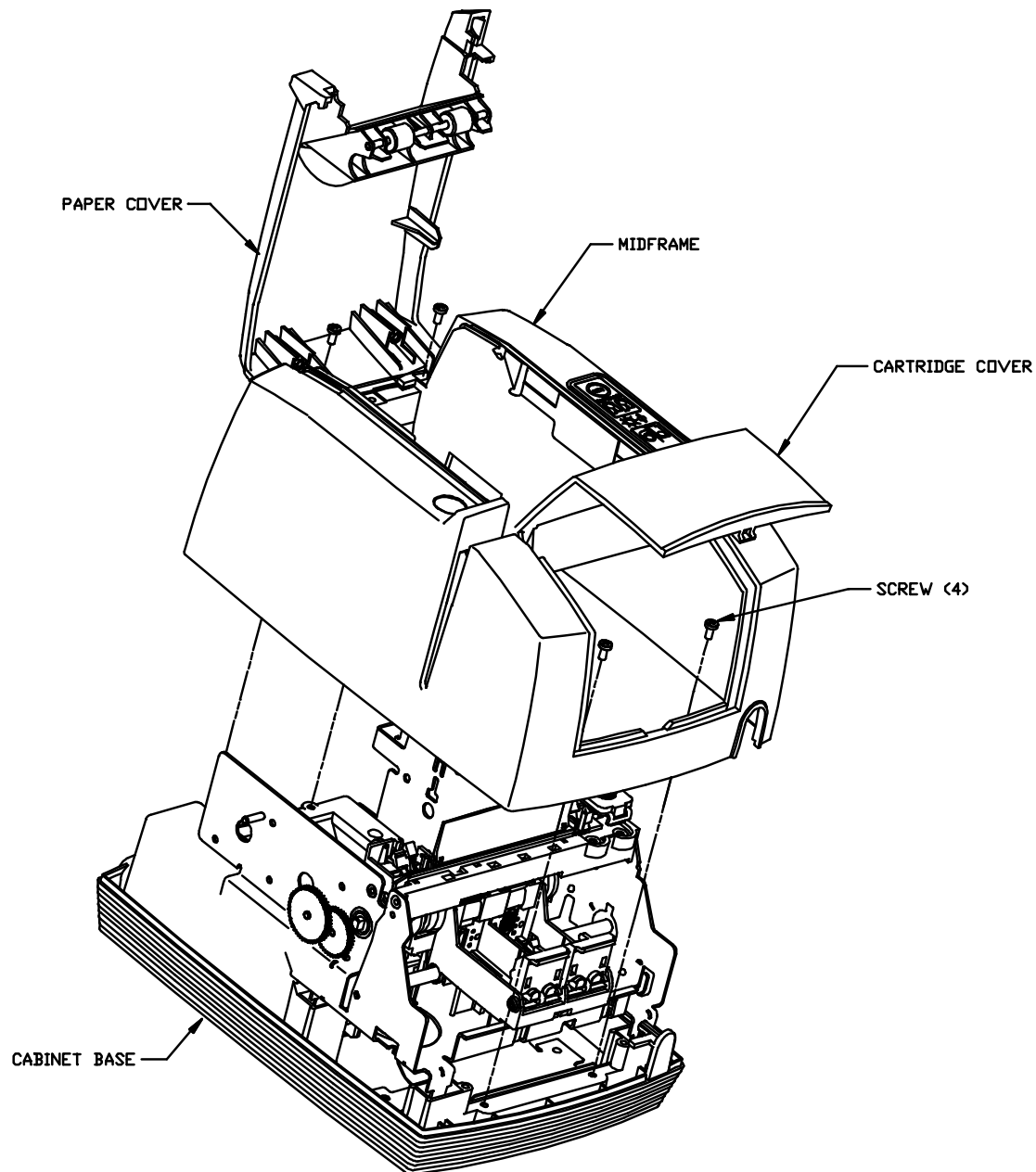


Figure 8 Removing Printer Midframe from Cabinet Base

Removing the Knife Assembly

The Knife Assembly is attached to the Rear Paper Cover of the printer.

1. Disconnect the knife harness connector and unrout the wires from the wire retention clips.
2. Unscrew the self-tapping, “middle screw”, to release the knife assembly from the rear paper compartment cover.
3. Unsnap the knife assembly from the the rear paper cover.

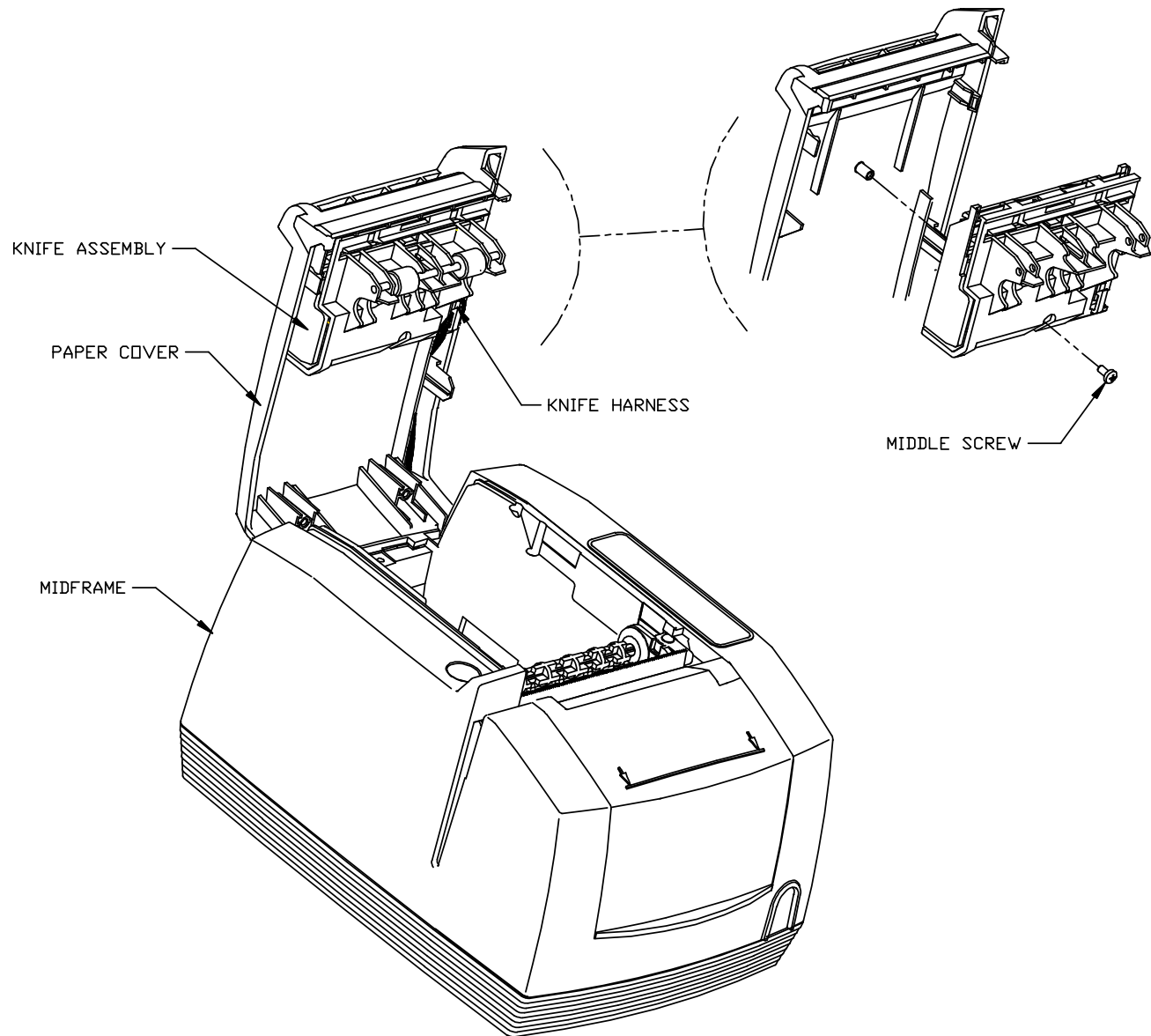


Figure 9 Removing Knife Assembly from the Paper Cover

Spare Parts List

The following spare parts list details the available replacement parts that make up the POSjet® 1500 printer. When selecting parts, be aware that some assemblies have to be purchased at a factory pre-determined breakdown level.

Packing Materials/Publications

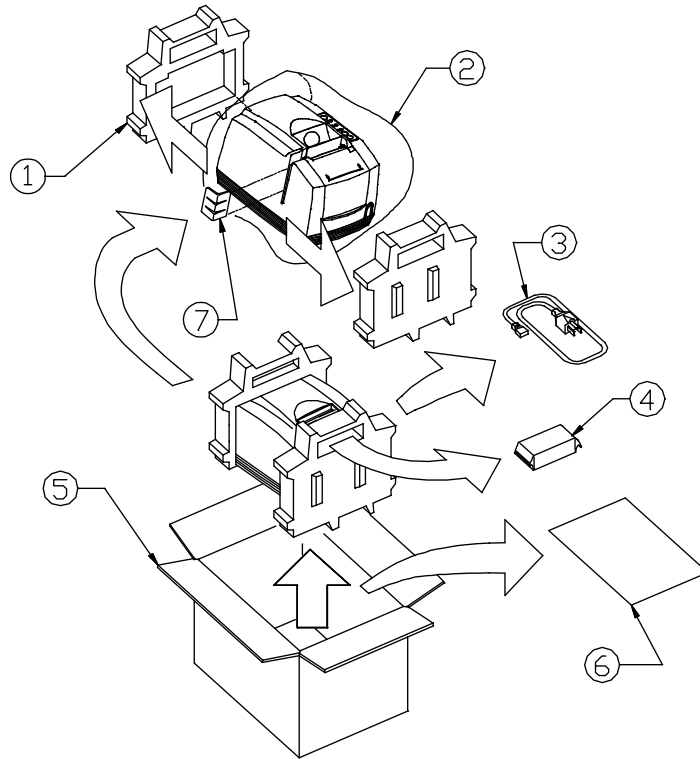


Figure 10 Packing Materials

| No. | Description (standard parts) | Part Number (History) |
|-----|--|--|
| 1 | Foamset-Open Cell | 20-03400 (12-01726) |
| 2 | Bag-Antistatic Shipping | 98-01902 |
| 3 | Cord-110V Power Cord-230V Power (Europe) Cord-240V Power (UK) Cord-220V Power (AUST) Cord-230V Power (IND/S. Africa) Parallel Communication Cable 25-pin Parallel Cable (straight thru) 36-pin Parallel Cable (Centronics) Serial Communication Cable PC, 9-pin Female to 9-pin Female PC, 9-pin femal to 25-pin Female USB Communication Cable Cable-USB | 98-02174L (98-02174) 98-02175L (98-02175) 98-02176L (98-02176) 98-02178L (98-02178) 98-02179L (98-02179) 253-9800007 253-9800002 10-2020 10-2021 98-04322 (98-04301,98-01992) |
| 4 | Cartridge-HP Black Cartridge-HP Red Cartridge-HP Blue Cartridge-HP Green | 98-01570 98-01571 98-01572 98-01573 |
| 5 | Carton-Open Cell Foam | 12-01727 |
| 6 | Sheet-Quick Reference | 20-03395 |
| 7 | Wedge-Shipping | 20-03570 |

Table 1 Packing Materials Parts List

- Not available as a spare part

Printer Assembly

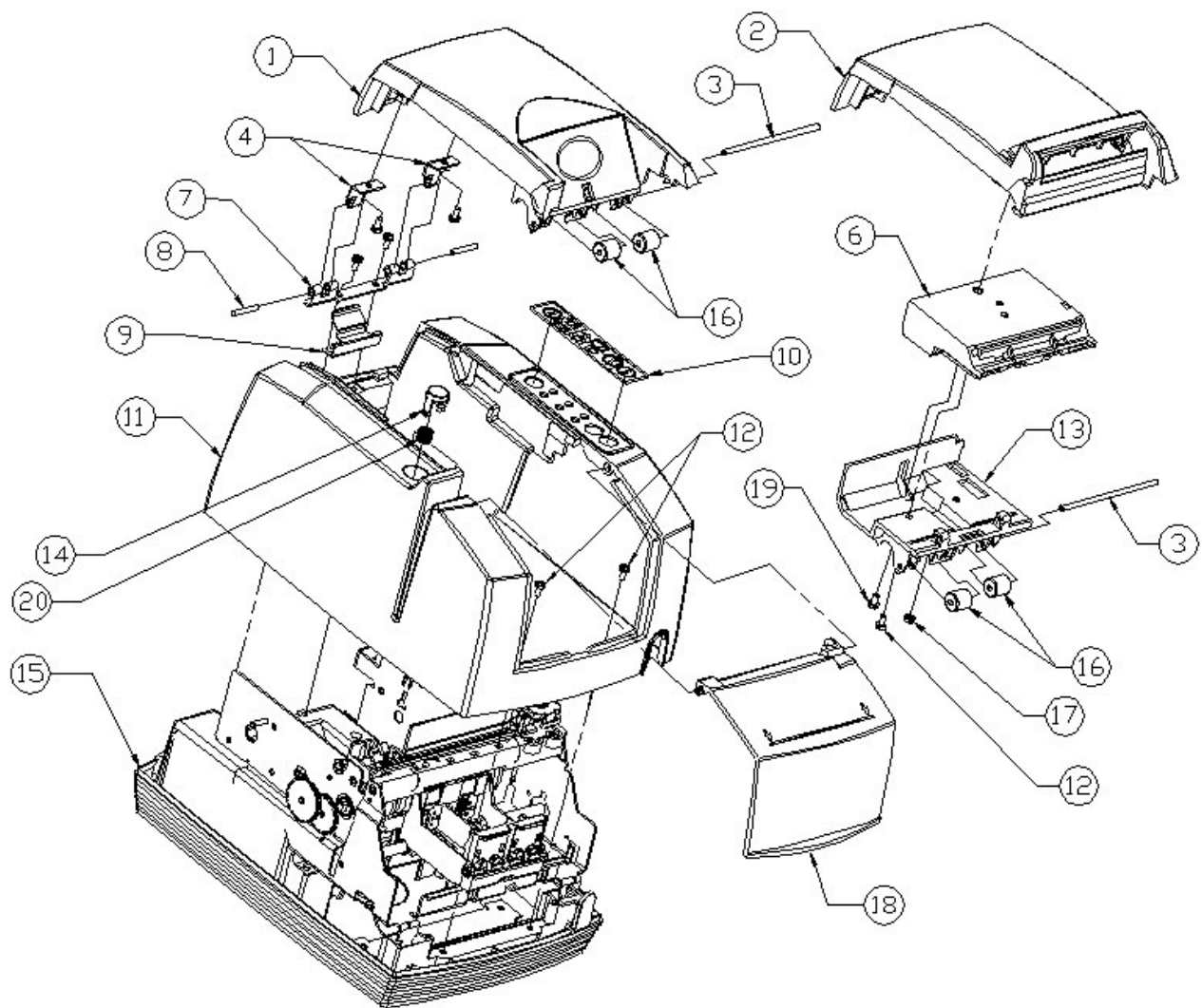


Figure 11 Printer Assembly

| No. | Description (standard parts) | Part Number (History) |
|-----|--|---|
| 1 | Cover-Lt. Tan Paper Cover-Dk. Gray Paper Cover-Black Paper | 20-02760 (20-03636, 20-00507) 20-02761 20-02762 |
| 2 | Cover-Lt. Tan Autocut Paper Cover-Dk. Gray Autocut Paper Cover-Black Autocut Paper | 20-04631 (20-00508) 20-04632 20-04633 |
| 3 | Spring-Paper Feed | 12-01660 |
| 4 | Hinge-Cover | 12-01629 |
| 5 | | |
| 6 | Assy-PJ1500 Knife | 12-05218L • (2-05218, R20-03417) |
| 7 | Bracket-Hinge | 12-01628 |
| 8 | Pin-Hinge | 12-01630 |
| 9 | Spring-Cover (w/knife) Spring-Cover (w/o knife) | 20-02731 20-02749 |
| 10 | Overlay-LT Tan LED Button Overlay-Dk. Gray LED Button | 20-02850 20-02851 |
| 11 | Midframe-P.P. LT Tan (POSjet) Midframe-P.P. LT Tan (Bankjet) Midframe-P.P. Lt. Tan (Oki) Midframe-P.P. Dk. Gray (POSjet) Midframe-P.P. LT Tan (no logo) Midframe-P.P. Dk. Gray (Bankjet) Midframe-P.P. Black (Bankjet) | R20-00509 R20-03517 R20-03625 R20-00513 R20-04228 20-04239 20-05401 |
| 12 | Screw-6-20x.375 PHPS PHD THD-CUT | 98-2052 |
| 13 | Cover-Knife | 20-04630 (20-02755) |
| 14 | Button-PJ1500 Release (Lt. Tan) Button-PJ1500 Release (Dk. Gray) | 20-02745 20-02746 |
| 15 | Assy-Stage 3 Mechanism | 20-03418 |
| 16 | Roller-Paper Load | 12-02481 |
| 17 | Nut-M3 Hex w/Lockwasher | 98-0621 |
| 18 | Cover-P.P. LT Tan Cartridge Cover-P.P. Dk. Gray Cartridge Cover-P.P. Black Cartridge | 20-00510 (20-02710, 20-00510) 20-00514 (20-02711, 20-00514) 20-05402 |
| 19 | Screw-#4 Plastic THD Forming | 98-7608 |
| 20 | Spring-Compression | 20-03600 |
| 21 | Assy-Complete Knife (includes items 3,5,6,12,13,16,17,19) | 20-05763L (20-05763) |

Table 2 Printer Assembly Parts List

- Not available as a spare part

Mechanism Assembly (stage 3)

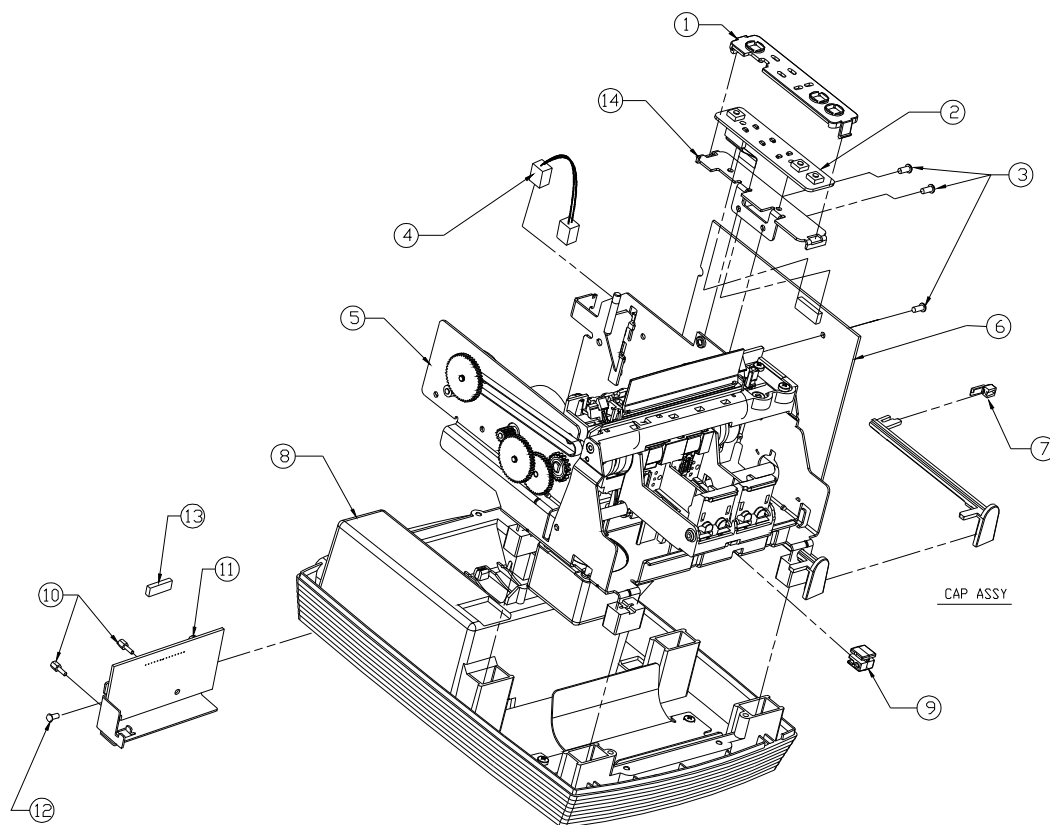


Figure 12 Mechanism Assembly (stage 3)

| No. | Description (standard parts) | Part Number (History) |
|-----|--|--|
| 1 | Plate-Keypad | 20-03158 |
| 2 | Assy-Keypad PCB | 20-03348 |
| 3 | Screw-M3x6 PHPS PHD | 98-0611 |
| 4 | Harness-Paper Low | 12-02211I (12-02211) |
| 5 | Assy-Stage 2 Mechanism | 20-03415 • |
| 6 | Assy-Controller PCB | 20-04259L (20-04259, 20-03266 & 20-04276) |
| 7 | CAP-Actuator | 12-03434 |
| 8 | Assy-Cabinet Base | 20-03416L • (20-03416) |
| 9 | Bearing-Carriage | 20-04688 (12-01509) |
| 10 | Screw-Jack | 98-02383 |
| 11 | Kit-9 pin Serial Interface Kit-25 pin Serial Interface Kit-25 pin Parallel Interface Kit-36 pin Parallel Interface Assy-Standard USB Bd/Bracket Assy-Powered USB Bd/Bracket Kit-Ethernet Interface | 12-00293 12-00294 12-00295 12-00296 12-07557L (12-05985L, 12-00309) 12-05984L 12-05070 |
| 12 | Screw-M3x6 PHPS PHD | 98-0611 |
| 13 | Shunt-10 Position | 98-02251 |
| 14 | Bracket-Keypad | 12-03165 |

Table 3 Cabinet Base Assembly Parts List

• Not available as a spare part

Cabinet Base Assembly

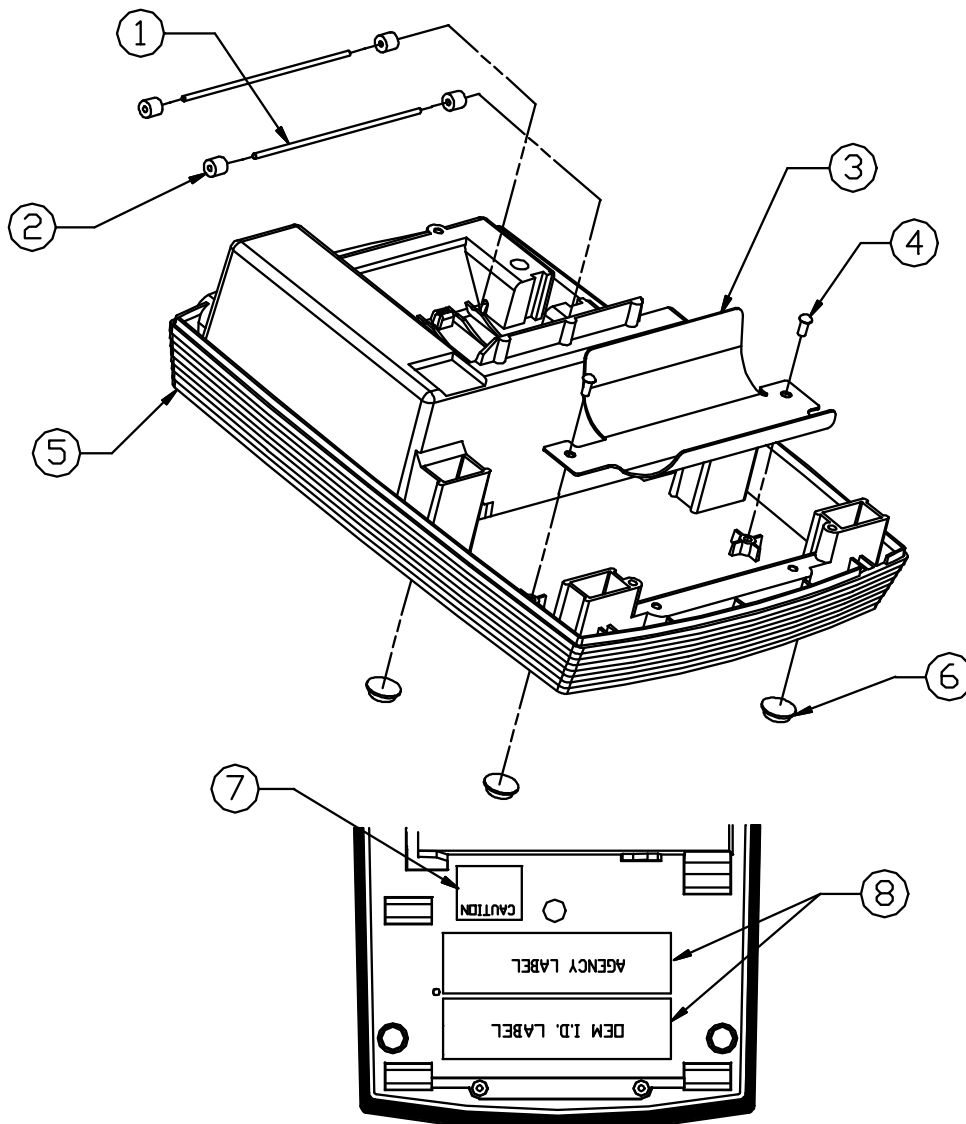


Figure 13 Cabinet Base Assembly

BOTTOM DETAIL

| No. | Description (optional parts) | Part Number (History) |
|-----|---|---|
| 1 | Rod-Roller Support | 15-9797 |
| 2 | Roller-Paper Supply | 15-9798 |
| 3 | Guide-Lower Slip | 20-03163 |
| 4 | Screw-6-20x.375 Phps Phd Thd-Cut | 98-2052 |
| 5 | Base-Cabinet (Lt. Tan) Base-Cabinet (Dk. Gray) Base-Cabinet (Black) | 12-04385 (12-03330) 12-04386 12-04388 |
| 6 | Foot-Rubber | 06-0553 |
| 7 | Label-Epson Cash Drawer Label-Ithaca Cash Drawer Label-Star Cash Drawer | 90-9933 • 90-9934 • 90-9935 • |
| 8 | Label-Blank Polyester | 98-7976 • |

Table 4 Cabinet Base Assembly Parts List

• Not available as a spare part

Paper Low Option Assembly

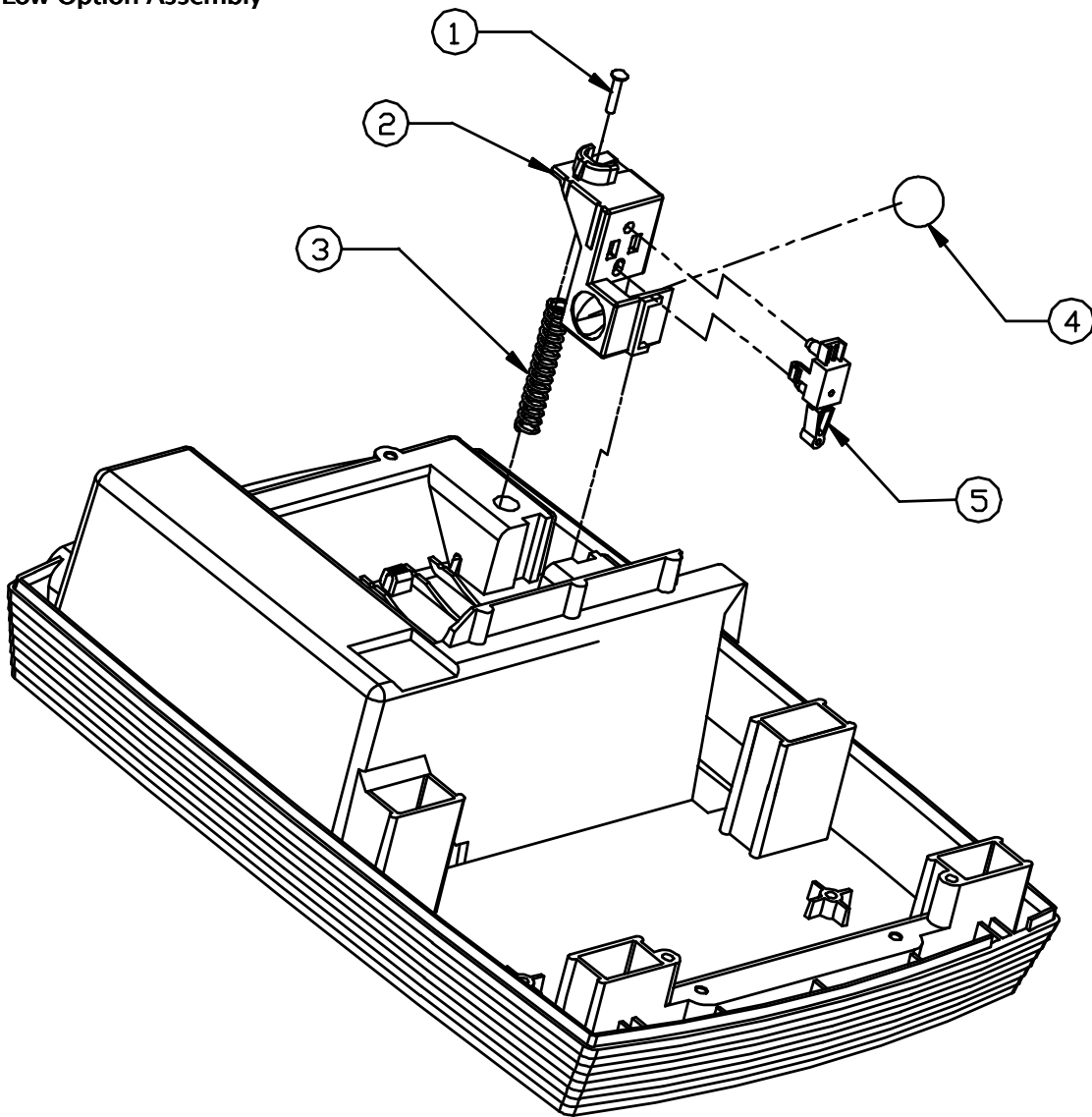


Figure 14 Paper Low Option Assembly

| No. | Description | Part Number (History) |
|-----|----------------------------|-----------------------|
| 1 | Screw-6-20X1.5 PI Thd Form | 98-01589 |
| 2 | Bracket-Paper Low | 12-01551 |
| 3 | Spring-Paper Low Comp | 98-01593 |
| 4 | Ball-Paper Low | 98-01594 |
| 5 | Switch-Momentary Lever | 98-02098L (98-02098) |

Table 5 Paper Low Option Assembly Parts List

• Not available as a spare part

Mechanism Assembly (stage 2)

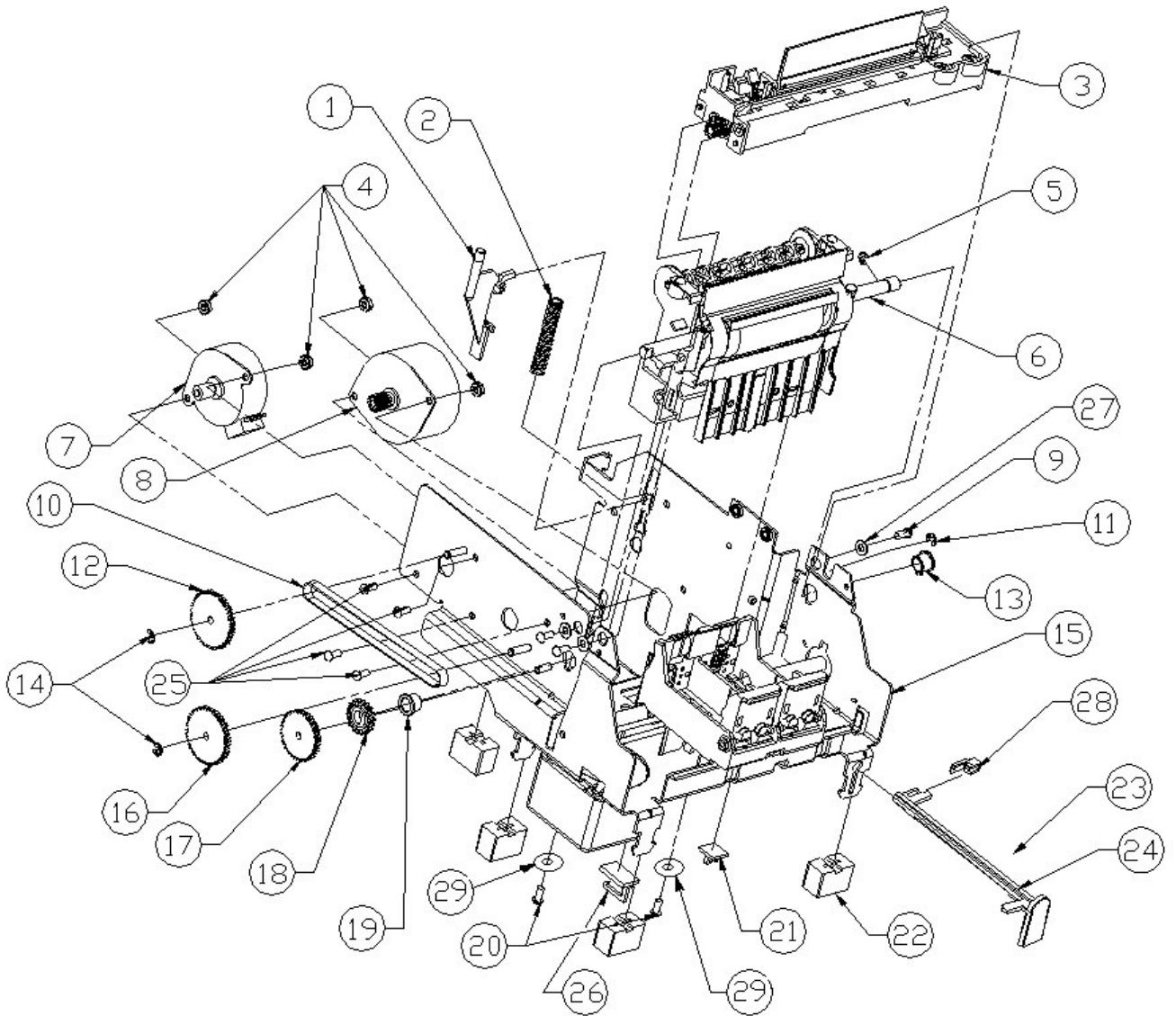


Figure 15 Mechanism Assembly (stage 2)

| No. | Description | Part Number (History) |
|-----|--|--|
| 1 | Interlock-Cover Open | 12-01633 |
| 2 | Spring-Compression | 98-9124 |
| 3 | Assy-Std. Validation Assy-Autocut Validation | 20-06943L (20-06943, 20-04376, 20-03412) 20-06942L (20-06942, 20-04375, 20-03406) |
| 4 | Nut-M3 Hex w/Lockwasher | 98-0621 |
| 5 | Retainer-E Ring .125 Dia. | 520-9800002 |
| 6 | Assy-STD Drive Support Assy-Autocut Drive Support | R20-03410 20-03404 |
| 7 | Motor-Step 35mm 7.5° w/pinion | 98-03208L (98-03208) |
| 8 | Motor-Step 7.5° w/pinion | 98-04311L (98-04311, 98-01706) |
| 9 | Screw-#4 Plastic Thd. Forming | 98-7608 |
| 10 | Belt-Timing 95T/.080 Pitch | 98-03162 |
| 11 | Keeper-E Ring .156 Dia. | 98-8223 |
| 12 | Gear-Combo Pulley 48/12T | 20-03154 |
| 13 | Bearing-Platen | 12-01552 |
| 14 | Retainer-E Ring .25 Dia. | 520-9800006 |
| 15 | Assy-Stage 1 Mechanism | 20-03414 • |
| 16 | Gear-Compound 14/48T | 20-03150 |
| 17 | Gear-Compound 18/48T | 20-03151 |
| 18 | Gear-18T Platen Drive | 20-03145 |
| 19 | Bearing-platen | 12-01552 |
| 20 | Screw-6-20x.375 | 98-2052 |
| 21 | Wire-Retainer | 98-9187 |
| 22 | Isolator | 12-03303 |
| 23 | Clip-Retaining | 98-7970 |
| 24 | Rod-Actuator | 12-04697 (R12-03495) |
| 25 | Screw-M3x6 Phps Phd | 98-0611 |
| 26 | Clamp-Cable | 98-04621 (98-03171) |
| 27 | Washer-#4 Flat | 527-9800002 |
| 28 | Cap-Actuator | 20-04754 |
| 29 | Washer-#6 Flat | 069477-06C5 |

Table 6 Mechanism Assembly Parts List (stage 2)

• Not available as a spare part

Drive Support Assembly

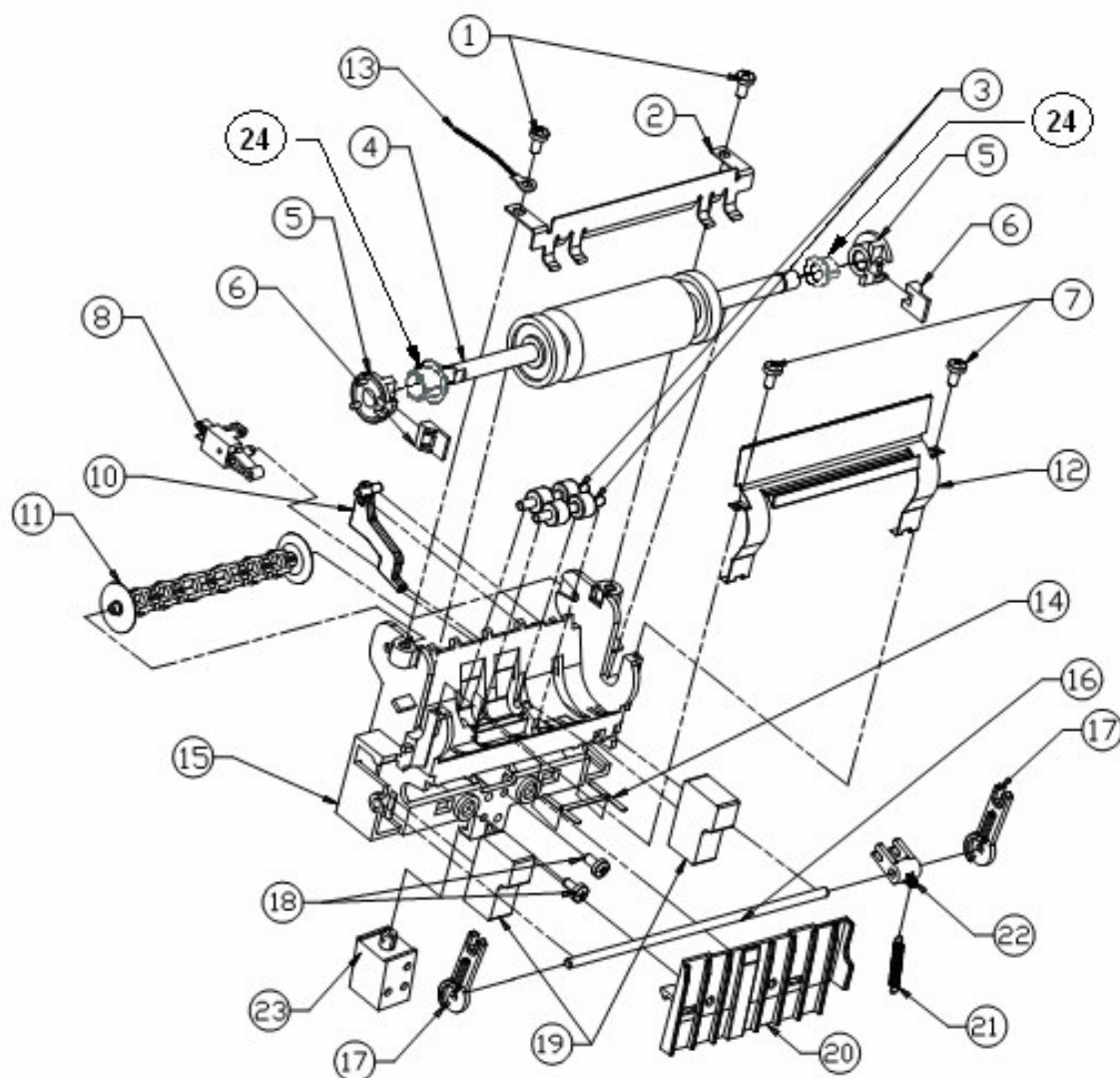


Figure 16 Drive Support Assembly

| No. | Description | Part Number (History) |
|-----|--|--|
| 1 | Screw-#6-18 X 1/4 TAP PHD PHPS | M067883-03 (98-04160, 98-2052) |
| 2 | Guide-Top Receipt | 20-04432 (20-02542) |
| 3 | Roller-Pressure | 12-01506 • |
| 4 | Assy-Platen | 12-03311 • |
| 5 | Disk-Wiper | 20-03176 |
| 6 | Wiper-Cartridge | 98-03326 |
| 7 | Screw-#2 Plastic Thd Forming | 98-02592 • |
| 8 | Switch-Momentary Lever | 98-02098L (98-02098) |
| 9 | Na | Na |
| 10 | Arm-Paper Out | 12-01547 |
| 11 | Roller-Receipt | 12-05129 (12-01521) |
| 12 | Guide-Std Receipt Guide-Receipt w/Knife | 20-04718L (20-04165, 20-02557) • 20-04719L (20-04166, 20-02553) • |
| 13 | Strap-Ground | 20-03558 • |
| 14 | Spring-Paper Drive | 20-02550 • |
| 15 | Frame-Drive | 20-02525 • |
| 16 | Shaft-Wiper | 12-01531 • |
| 17 | Arm-Wiper | 20-04724 • (20-03164) |
| 18 | Screw-4/40 | 98-01595 |
| 19 | Spittoon | 12-01548 • |
| 20 | Guide-Upper Slip | 20-03157 • |
| 21 | Spring-Wiper Extension | 98-03601 (98-01592) |
| 22 | Arm-Solenoid | 12-01529 • |
| 23 | Assy-Solenoid | 12-02213I (12-02213) |
| 24 | Bearing-Driveframe | 20-04716 |

Table 7 Drive Support Assembly Parts List

• Not available as a spare part

Mechanism Assembly (stage 1)

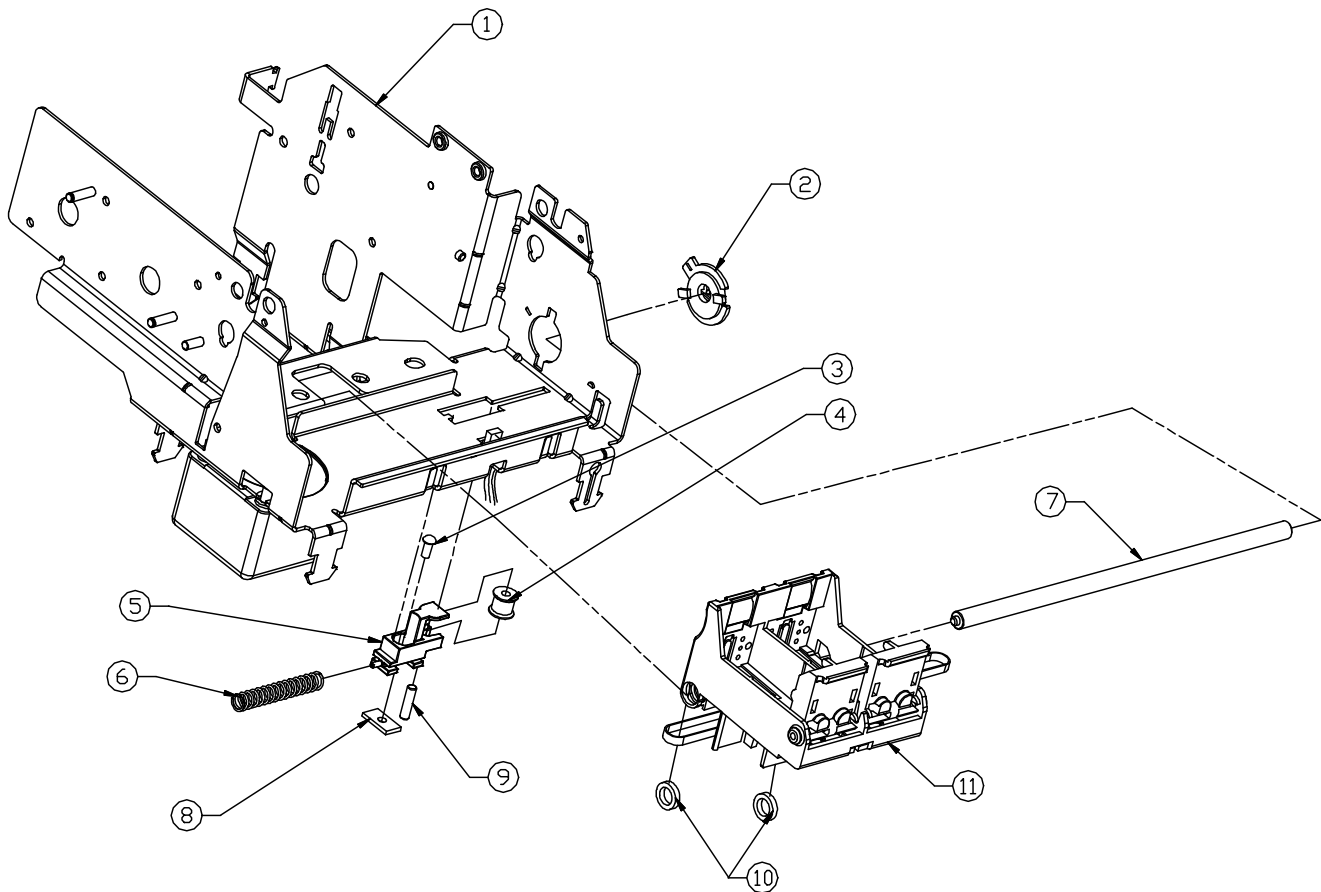


Figure 17 Mechanism Assembly (stage 1)

| No. | Description | Part Number (History) |
|-----|--|--|
| 1 | Assembly-Mech Frame | 20-03407 • |
| 2 | CAM-Eccentric | 12-03497 |
| 3 | Screw-M3x6, Phillips PHD | 98-0897 |
| 4 | Pulley-Flanged | 12-02475 |
| 5 | Tensioner-Belt | 12-01532 |
| 6 | Spring-Tensioner Comp | 98-01591 |
| 7 | Shaft-Carriage | 20-03149 |
| 8 | Plate-Belt Tensioner | 12-01533 |
| 9 | Pin-Idler Tensioner | 98-01520 |
| 10 | Washer-Felt | 12-01549 |
| 11 | Assy-2 Cartridge Carriage Assy-1 Cartridge Carriage | 20-03411L (20-03411) 20-03405L (20-03405) |

Table 8 Mechanism Assembly (stage 1) Parts List

• Not available as a spare part

Mechanism Frame Assembly

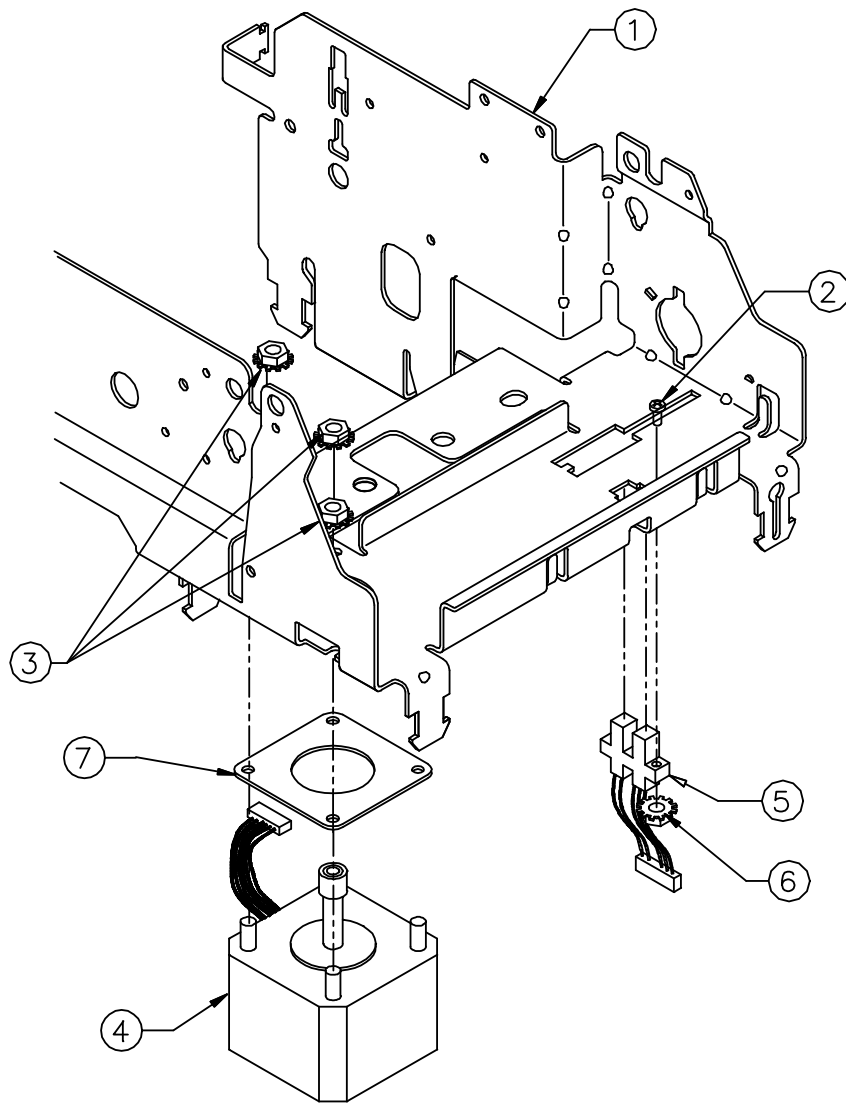


Figure 18 Mechanism Frame Assembly

| No. | Description | Part Number (History) |
|-----|-------------------------|--|
| 1 | Assy-Main Frame | 20-04661 (20-03569) |
| 2 | Screw-M3x6mm PHPS PHD | 98-0611 |
| 3 | Nut-M3 Hex w/Lockwasher | 98-0621 |
| 4 | Assy-Carriage Motor | 20-04658L (20-04658, 20-04555, 20-03402) |
| 5 | Harness-Head POS Sensor | 12-02212L (12-02212) |
| 6 | Nut-M3 Hex w/Lockwasher | 98-0621 |
| 7 | Spacer-Motor | 20-02870 |

Table 9 Mechanism Frame Assembly Parts List

• Not available as a spare part order

Carriage Assembly

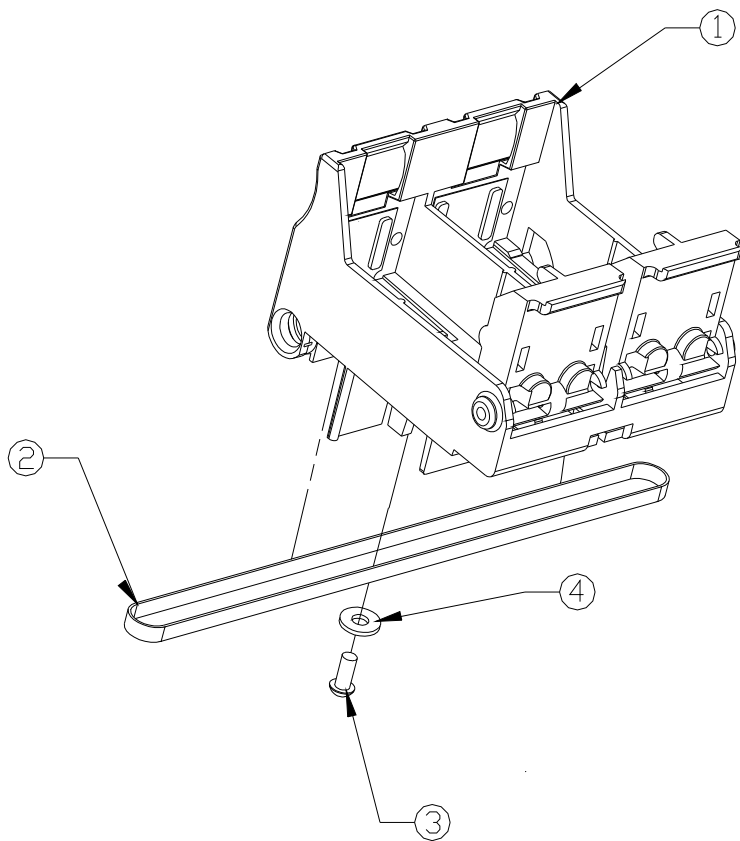


Figure 19 Replacement Carriage Assembly

| No. | Description | Part Number (History) |
|-----|--|-----------------------|
| 1 | Assy-Repl Carriage (2 cartridge) Assy-Repl Carriage (1 cartridge) | 20-03409 20-03403 |
| 2 | Belt-132 Tooth | 98-01542 |
| 3 | Screw-#4 Plastic Thd Forming | 98-7608 |
| 4 | Washer-#4 .032 Thk Flat | 527-9800002 |

Table 10 Carriage Assembly Parts List

• Not available as a spare part order

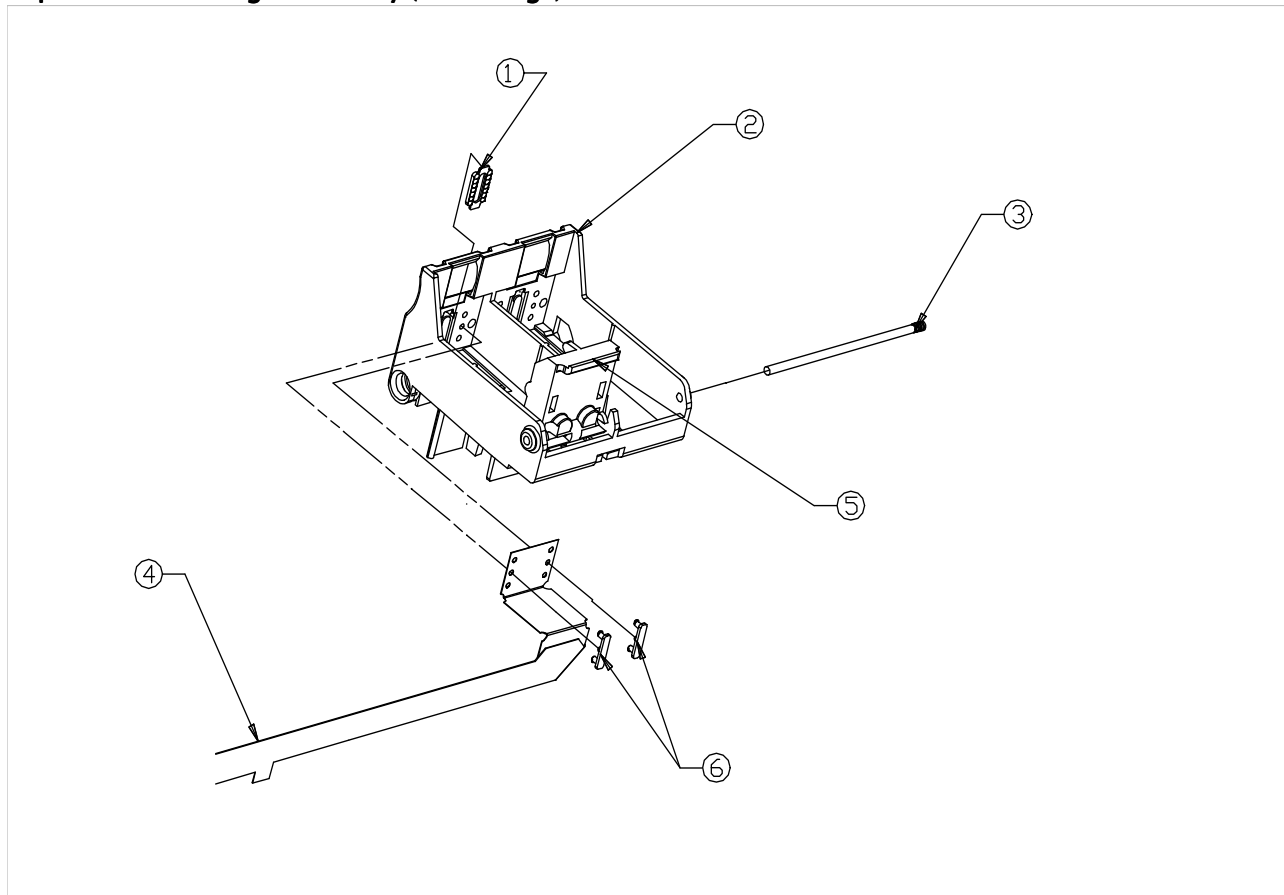
Replacement Carriage Assembly (1 Cartridge)

Figure 20 Replacement Carriage Assembly (ref. Part #20-03403)

| 1 | Cushion-Head Cable | 20-03148 • |
|---|---------------------|------------------------|
| 2 | Carriage | 20-03140 • |
| 3 | Pivot Pin-Latch | 12-01539 • |
| 4 | Head Cable | 12-01897L • (12-01897) |
| 5 | Assy-Carriage Latch | 12-02298L • (98-02098) |
| 6 | Retainer-Head Cable | 12-02423 • |

Table 11 Replacement Carriage Assembly Parts List

• Not available as a spare part

Power Supply

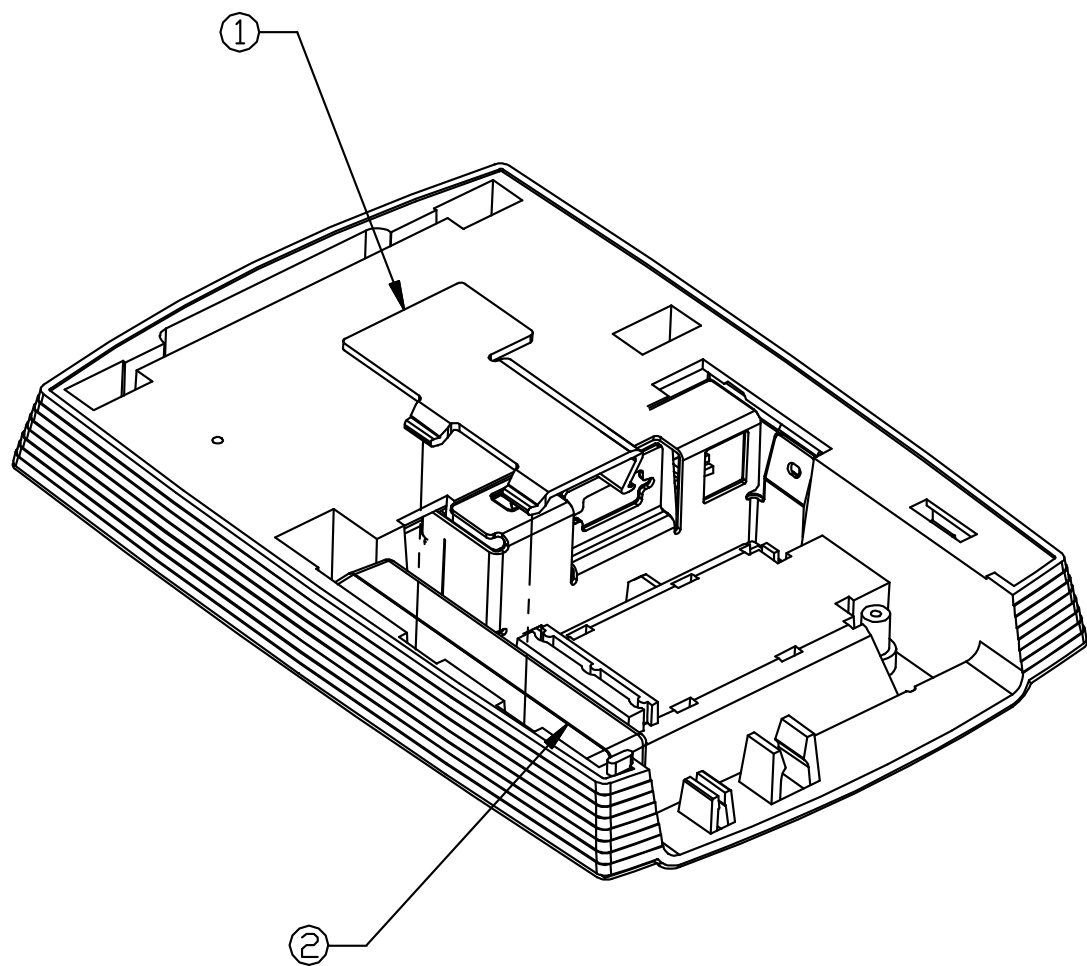


Figure 21 Power Supply

| No. | Description | Part Number (History) |
|-----|------------------------------|--------------------------------|
| 1 | Support-Power Supply (Black) | 12-01624 (12-01625) |
| 2 | Power Supply | 98-06509L (98-06500, 98-02250) |

Table 12 Power Supply

• Not available as a spare part order

Ordering Genuine Ithaca Supplies

Genuine Ithaca Supplies can be ordered directly from the TransAct website (www.transact-tech.com) or by using our toll free telephone number within the US: (877) 7-ITHACA. When calling, please ask for the Consumables Sales Department.

| Consumable Kits | Stock Number |
|--|--------------|
| 12 rolls paper/1 Blk. Ink Cartridge (Standard Grade) | 100-03429 |
| 20 rolls paper/1 Blk. Ink Cartridge (Standard Grade) | 100-03430 |
| 12 rolls paper/1 Blk. Ink Cartridge (Premium Grade) | 98-03508 |
| 20 rolls paper/1 Blk. Ink Cartridge (Premium Grade) | 98-03509 |

Table 13 Paper Ordering Information

| Receipt Paper | Type | Dimensions | Stock Number |
|---------------|----------------------|--------------|--------------|
| 24 Roll Case | (Ithaca Inkjet 295S) | See page 11. | 98-02022 |
| 32 Roll Case | (Ithaca Inkjet 300P) | | 98-03505 |
| 24 Roll Case | (Ithaca Inkjet 300P) | | 98-06697 |

Table 14 Paper Ordering Information

Ink Cartridges

| 3 Pack Cartridges | Supplier | Stock Number |
|-------------------|----------------------------|--------------|
| 3 Pack Black | Transact's Ithaca Facility | 100-02347 |
| 3 Pack Red | Transact's Ithaca Facility | 100-02349 |
| 3 Pack Blue | Transact's Ithaca Facility | 100-02353 |
| 3 Pack Green | Transact's Ithaca Facility | 100-02351 |
| 6 Pack Cartridges | Supplier | |
| 6 Pack Black | Transact's Ithaca Facility | 100-02348 |
| 6 Pack Red | Transact's Ithaca Facility | 100-02350 |
| 6 Pack Blue | Transact's Ithaca Facility | 100-02354 |
| 6 Pack Green | Transact's Ithaca Facility | 100-02352 |

Table 15 Ink Cartridge Ordering Information

Cables

| Cables | Stock Number |
|---|----------------------------|
| 110V Power Cable (USA) | 98-02174L |
| 220V Power Cable (Australia) | 98-02178L |
| 230V Power Cable (International) | 98-02175L |
| 230V Power Cable (IND/South Africa) | 98-02179L |
| 240V Power Cable (UK) | 98-02176L |
| Parallel Communication Cable 25-pin male to 25-pin male 36-pin Centronics to 25-pin male | 253-9800007 253-9800002 |
| Serial Communication Cable 9-pin Female to 9-pin Female 9-pin Female to 25-pin Female | 10-2020 10-2021 |

Table 16 Cables Ordering Information

Domestic and International power cables available. Call for more information

Drivers Available

| | |
|---|-----------|
| Windows® 95/98/Me Print Driver and Documentation | 100-9167 |
| Windows® 2000/NT 4.0 Print Driver and Documentation | 100-9170 |
| OPOS Print Driver Manual (includes diskettes) | 100-9732 |
| Software Developer's Toolkit (CD-ROM) | 100-02440 |